

	Calculations for:	Made by	Date
	South Park Bridge Replacement Project	E. Evans	6/8/2009
		Checked by	Date
		M. Freas	6/30/2009
		Backchecked by	Date

Vertical Stopping Sight Distances and Design Speeds

Direction **Forward**

Vertical Alignment: Dallas-E

PVI Station	PVI Elevation	VC Length	Forward Grade	K	SSD (ft)		Design Speed (mph)				Min. VCL		Ahead Tangent Length
					Rural	Urban	Design		Exist.	Req'd	per D.S.	Sag Comfort	
Initial Tangent Grade =			2.00%										
10+00.00	19.07		-1.42%	(no VC)	---	---	---	---	---	30	---	---	3.00'
10+48.00	18.39	90.00'	2.50%	23, Sag	174'	174'	27.1	27.1	29.1	30	90'	76'	30.18'
11+23.18	20.27			(no VC)	---	---	---	---	---	30	---	---	---

Notes:

Template Dated 10/20/2006

- 1) The Stopping Sight Distance and Design Speed calculations are based on WSDOT Design Manual, Chapter 650, dated May 2006.
- 2) The minimum vertical curve length calculations are based on WSDOT Design Manual, Chapter 630, dated May 2004.